

Fig. 1

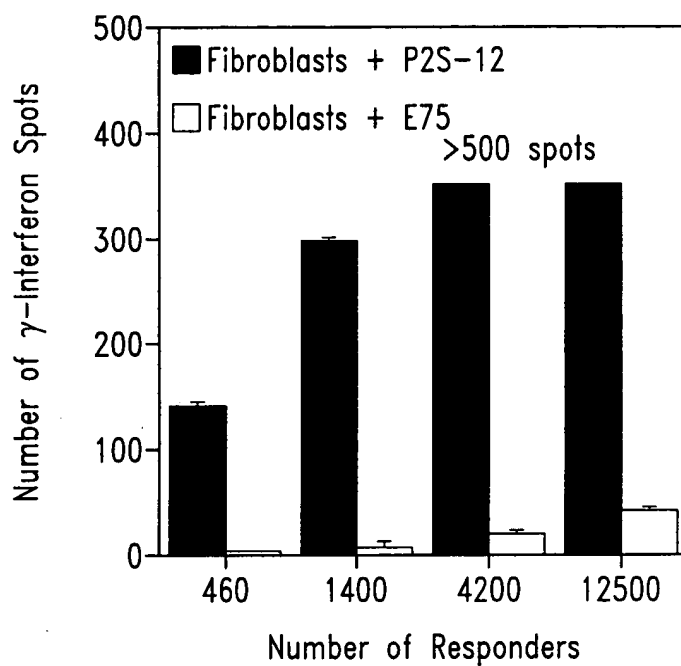


Fig. 2A

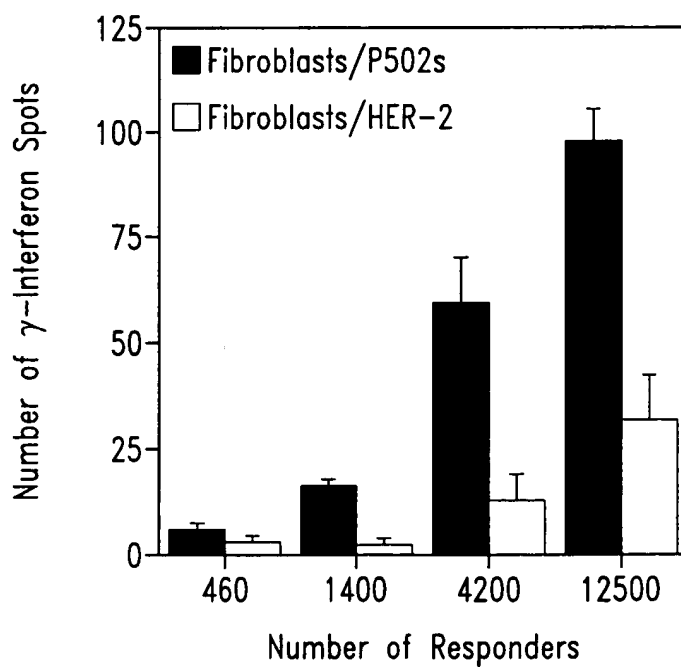


Fig. 2B

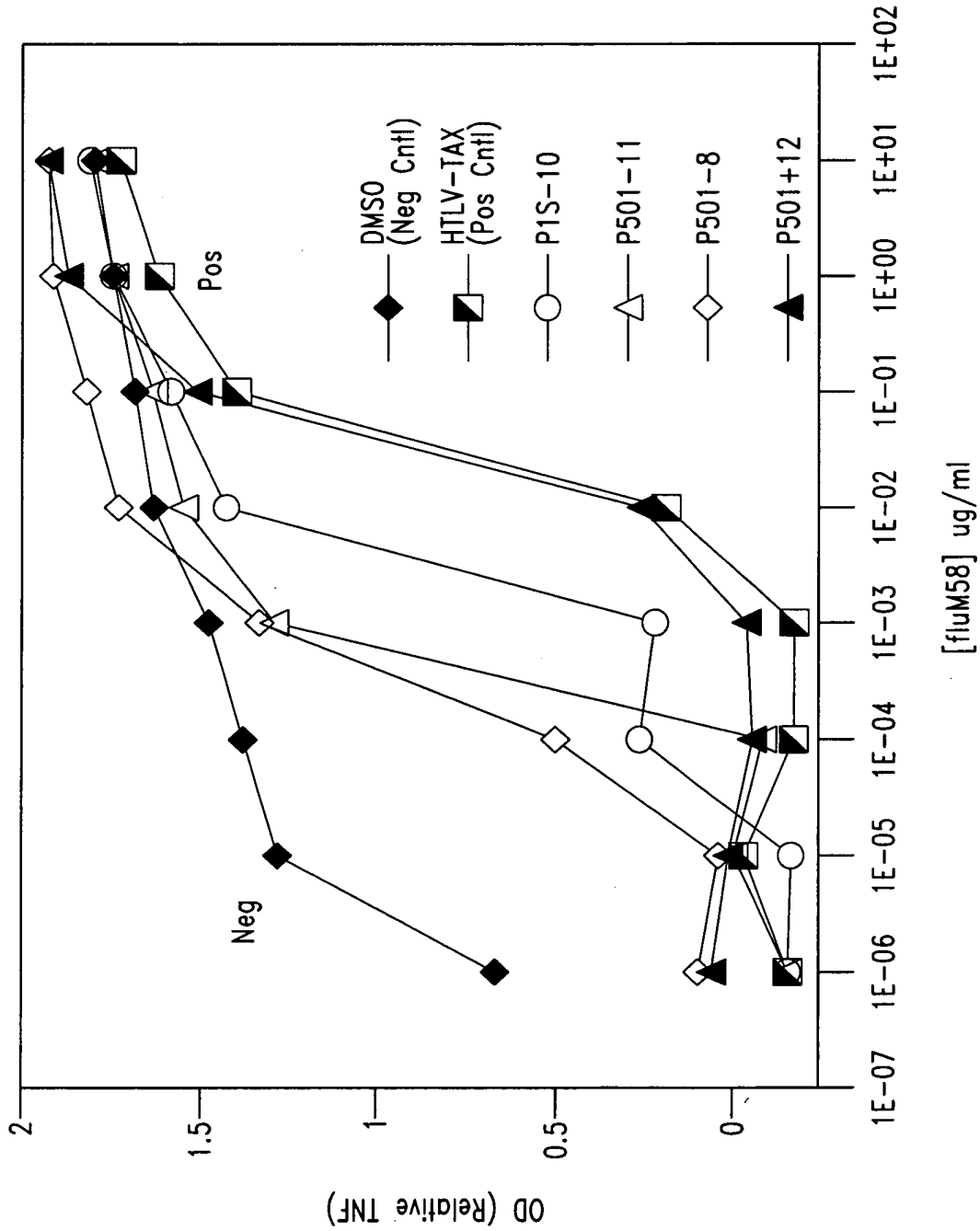


Fig. 3

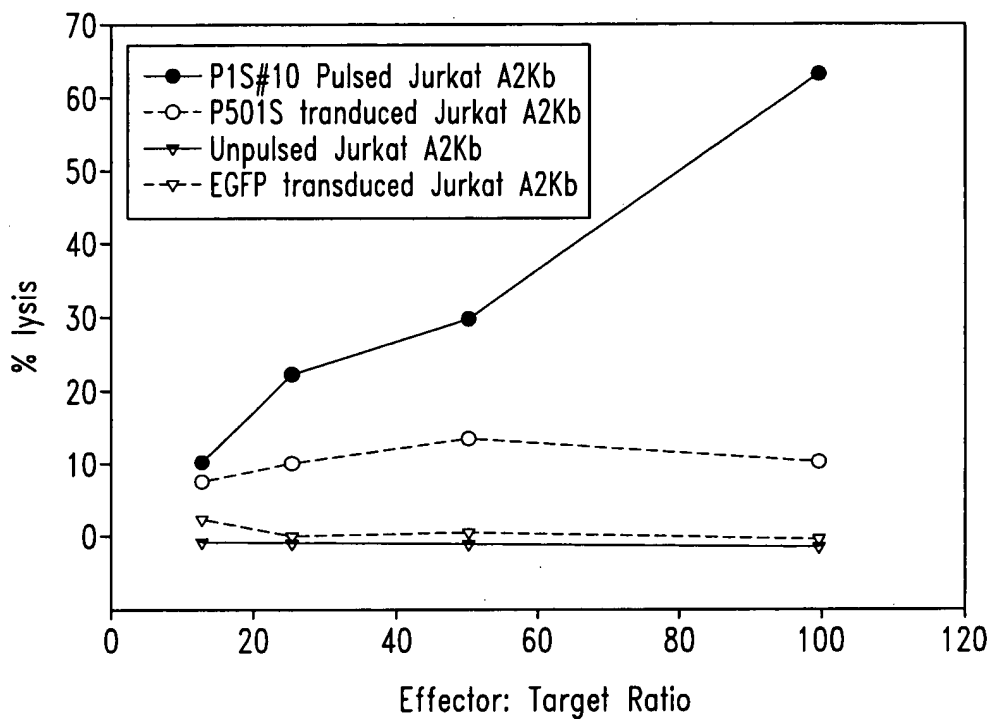


Fig. 4

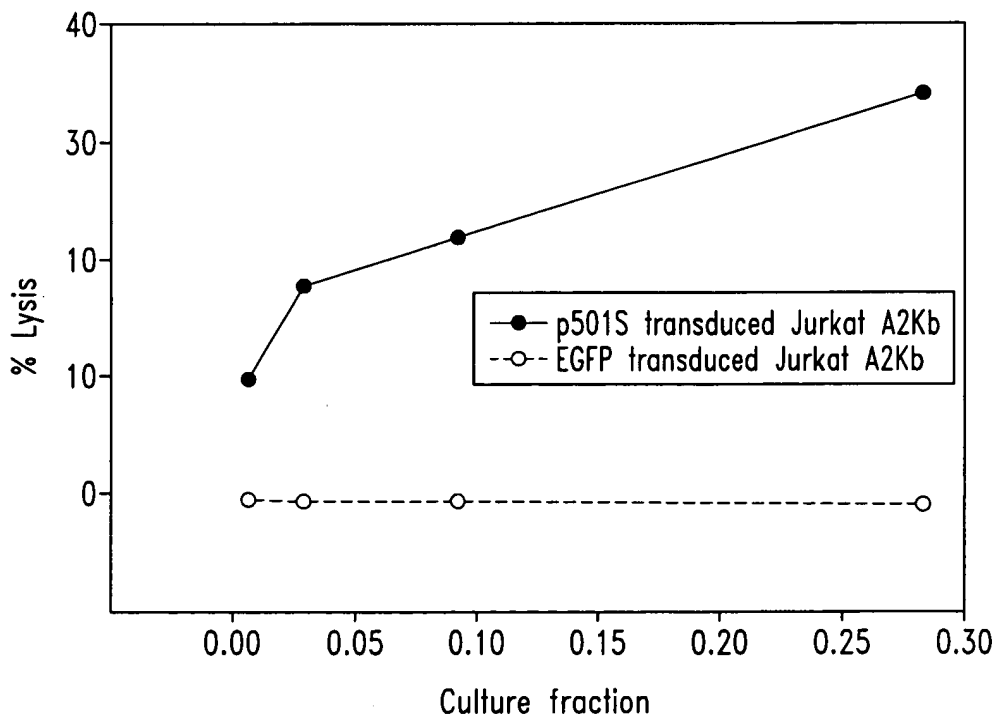


Fig. 5

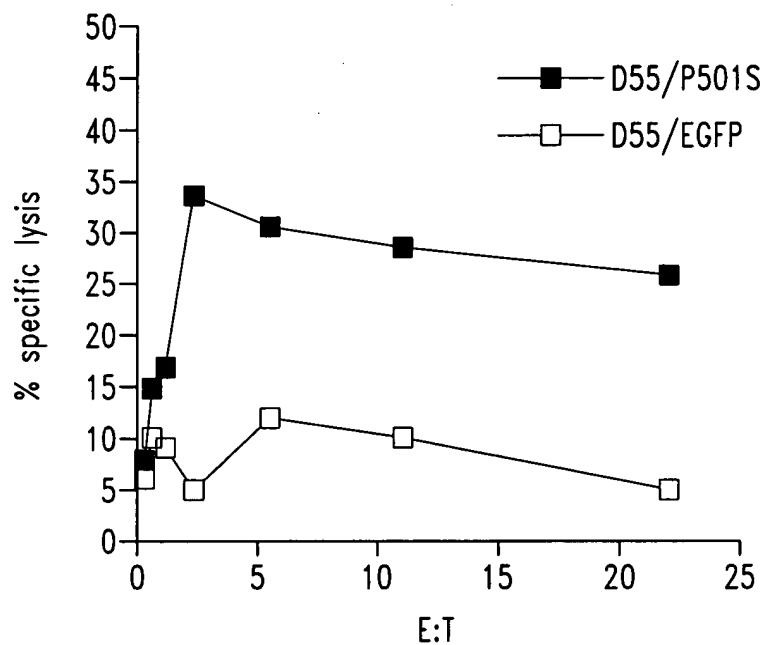


Fig. 6A

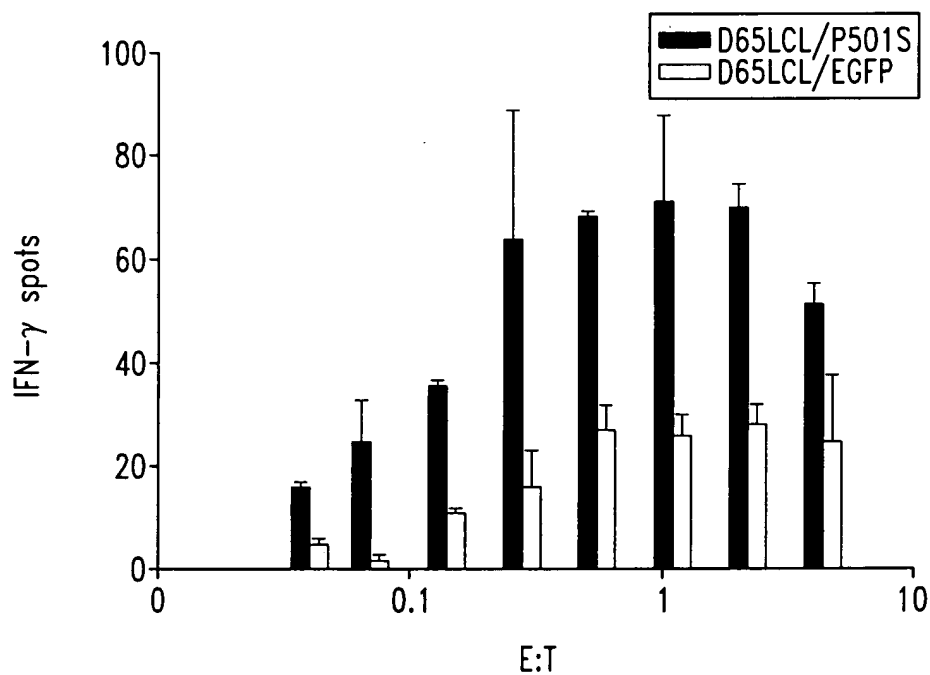
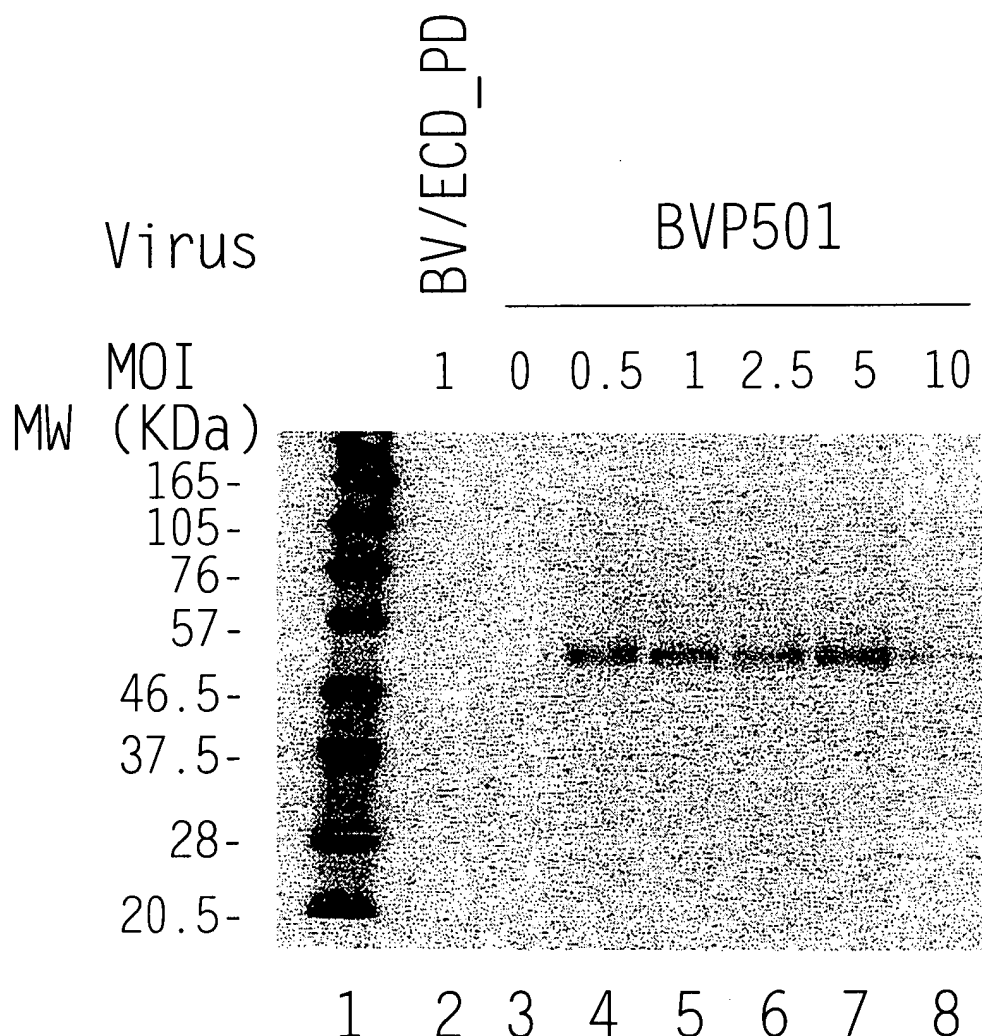


Fig. 6B



Expression of P501S by the Baculovirus Expression System



C 6 million high 5 cells in 6-well plate were infected with an unrelated control virus BV/ECD_PD (lane2), without virus (lane3), or with recombinant baculovirus for P501 at different MOIs (lane 4-8). Cell lysates were run on SDS-PAGE under the reducing conditions and analyzed by Western blot with a monoclonal antibody against P501S (P501S-10E3-G4D3). Lane 1 is the biotinylated protein molecular weight marker (BioLabs).

FIGURE 8. Mapping of the epitope recognized by 10E3-G4-D3

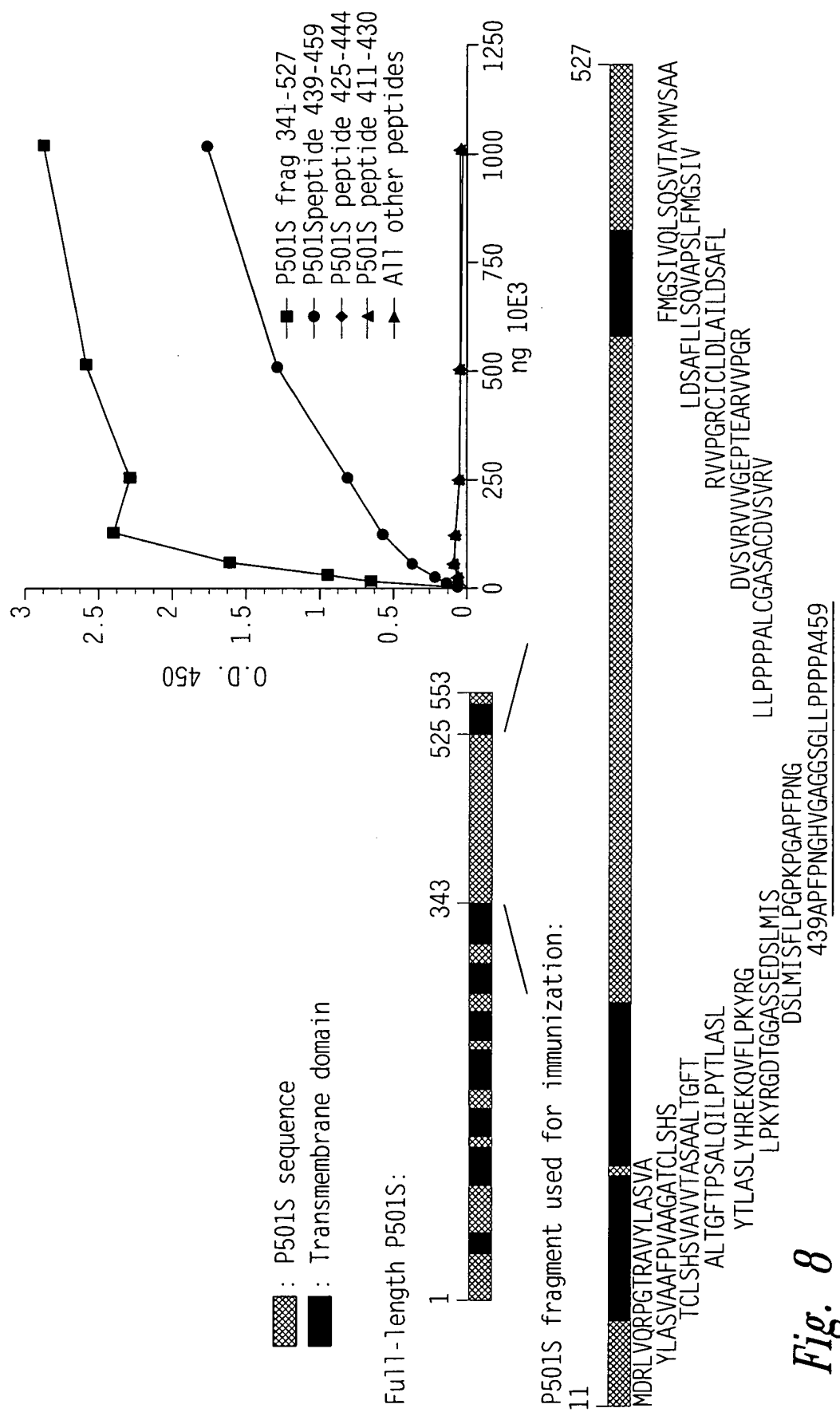


Fig. 8



Schematic of P501S with predicted
transmembrane, cytoplasmic, and extracellular regions

MVQRLWVSRLLRHRK AQLLLVNLLTFGLEVCLAAGIT **YVPPLLLEVGVEEKFM**
TMVLGIGPVLGLVCYPLLGSAS

DHWRGRYGRRRP FIWALSLGILLSLFLIPRAGWL **AGLLCPDPRPLE** LALLILGVGLLDFCGQVCFTPL

EALLSDLFRDPDHCRC AYSVYAFMISLGGCLGYLLPAI **DWDTSALAPYLGTQEE**

CLFGLLTLIFLTCVAATLLV *AEEAALGPTEPAEGLSAPSLSPHCCPCRARLAFRNLGALLPRL*

HQLCCRMPTLRR LFVAELCSWMALMTFTLFYTDF **VGEGLYQGVPRAPGTEARRHYDEGVR**

MGSLGLFLQCAISLVFSLVM *DRLVQRFGTRAVYLAS* VAAFPVAAGATCLSHSVAVVTA **SAA**

LTGFTFSALQILPYTLASLY *HREKQVFLPKYRGDTGGASSEDSLMTSFLPGPKPGAPFPNGHVGAGGSGL*

LPPPPALCGASACDVSVRVVVGEPTEARVVPGRG ICLDLAILDSAFLLSQVAPSLF **MGSIVQLSQS**

VTAYMVSAAAGLGLVAIYFAT *QVVFDKSDLAKYSA*

Underlined sequence: Predicted transmembrane domain; **Bold sequence**:
Predicted extracellular domain; *Italic sequence*: Predicted intracellular
domain. Sequence in bold/underlined: used generate polyclonal rabbit
serum

Localization of domains predicted using HMMTOP (G.E. Tusnady and I. Simon
(1998) Principles Governing Amino Acid Composition of Integral Membrane
Proteins: Applications to topology Prediction. J. Mol Biol. 283, 489-506.

Fig. 9



Genomic Map of (5) Corixa Candidate Genes

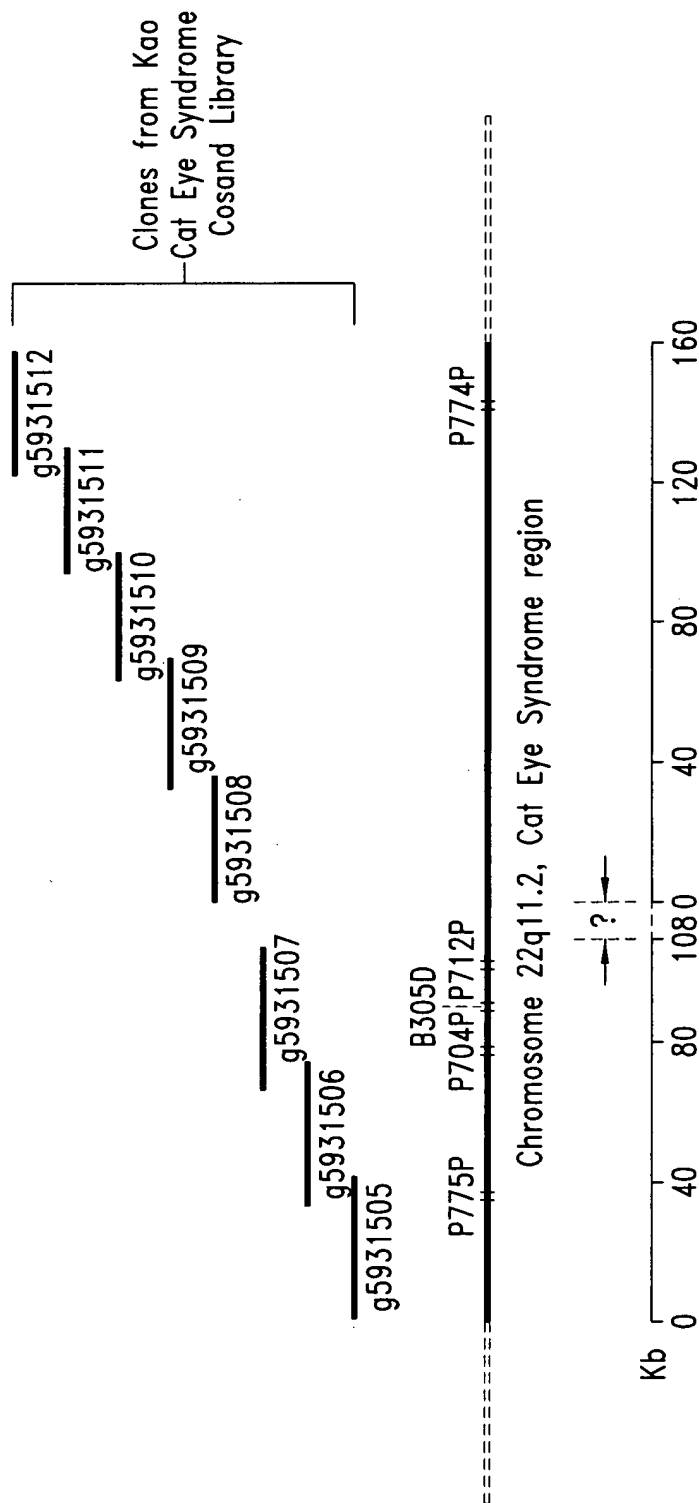


Fig. 10

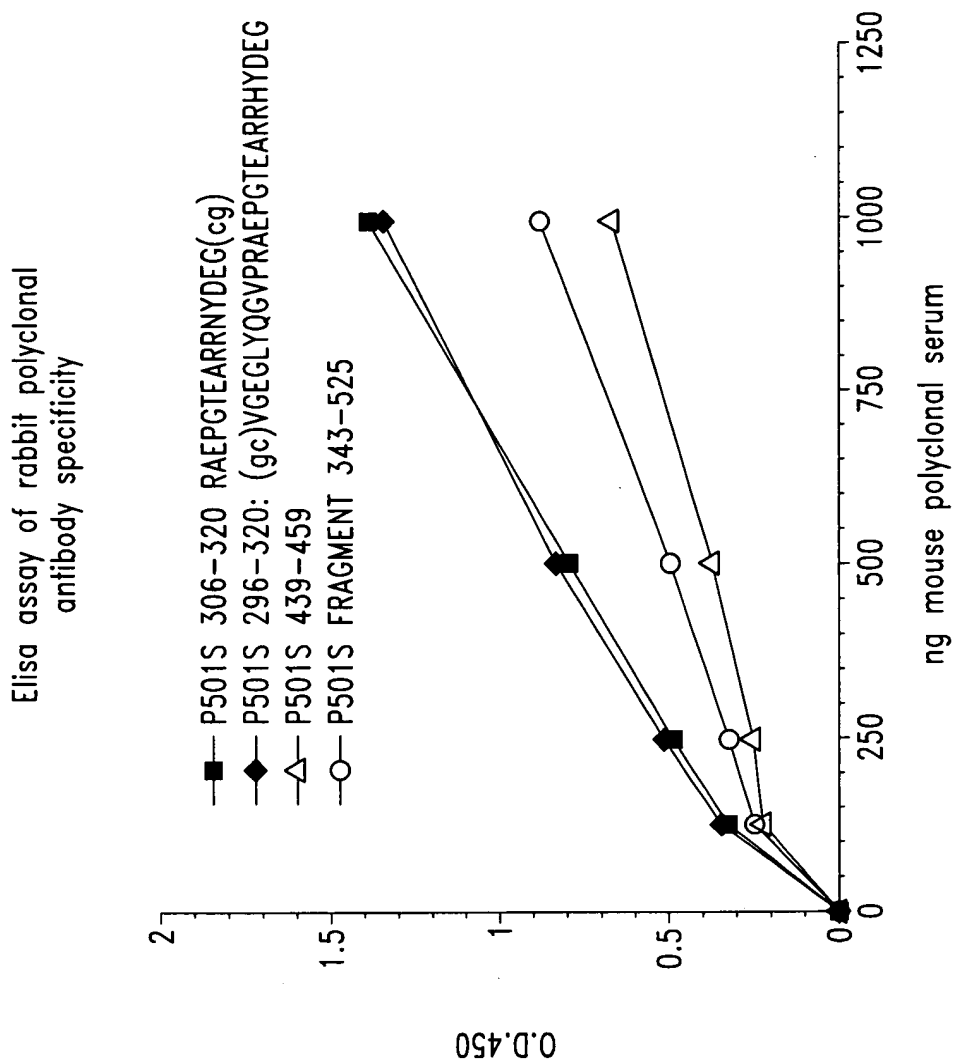


Fig. 11



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TTCTTTACCA	AAGATTCCAA	GGCCACGGAG	AATGTGTGCA	AGTGTGGCTA	TGCCCAGAGC	240
CAGCACATGG	AAGGCACCCA	GATCAACCAA	AGTGAGAAAT	GGAACTACAA	GAAACACACC	300
AAGGAATTC	CTACCGACGC	CTTTGGGGAT	ATTGAGTTTG	AGACACTGGG	GAAGAAAGGG	360
AAGTATATAC	GTCTGTCTCTG	CGACACGGAC	GCGGAAATCC	TTTACGAGCT	GCTGACCCAG	420
CACTGGCACC	TGAAAACACC	CAACCTGGTC	ATTTCTGTGA	CCGGGGGCGC	CAAGAACTTC	480
GCCCTGAAGC	CGCGCATGCG	CAAGATCTTC	AGCCGGCTCA	TCTACATCGC	GCAGTCCAAA	540
GGTGCTTGGA	TTCTCACGGG	AGGCACCCAT	TATGGCCTGA	CGAAGTACAT	CGGGGAGGTG	600
GTGAGAGATA	ACACCATCAG	CAGGAGTTCA	GAGGAGAATA	TTGTGGCCAT	TGGCATAGCA	660
GCTTGGGGCA	TGGTCTCCAA	CCGGGACACC	CTCATCAGGA	ATTGCGATGC	TGAGGGCTAT	720
TTTTTAGCCC	AGTACCTTAT	GGATGACTTC	ACAAGGGATC	CACTGTATAT	CCTGGACAAC	780
AACCACACAC	ATTTGCTGCT	CGTGGACAAT	GGCTGTCTATG	GACATCCCAC	TGTCGAAGCA	840
AAGCTCCGGA	ATCAGCTAGA	GAAGCATATC	TCTGAGCGCA	CTATTCAAGA	TTCCAACAT	900
GGTGGCAAGA	TCCCCATTGT	GTGTTTTGCC	CAAGGAGGTG	GAAAAGAGAC	TTTGAAAGCC	960
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TGTCTGGAGC	TGGCGGTGGA	GGCCACAGAC	CAGCATTTCA	CCGCCCAGCC	TGGGGTCCAG	2040
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Fig. 12A (2)



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AAAAAAAAAA	AAAAAAAAAA	AAAAAAA				5668

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Inventor(s): Jiangchun Xu et al.

Express Mail No. EV529782015US "REPLACEMENT SHEET"



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Fig. 12B